

Product Name: Smart Phone	Report No.: FCC2022-06453E
Product Model: V Max	Security Classification: Open
Version: 1.0	Total Page: 33

# **TIRT Testing Report**

Prepared By:	Checked By:	Approved By:
Stone Tang	Randy Lv	Daniel Chen
Stone Tang	Randy LV	Daniel Chen



# FCC EMC TEST REPORT

Product No:	20221220021903
Product Name:	Smart Phone
Product Model:	V Max, S100Pro All models are with same schematic, The only diffrences are model no. V Max is main test model, S100Pro is the adding model. No other differences.
Date of Receipt:	Dec.12.2022
Date of Test:	Dec.13.2022~ Jan.8.2023
Issued Date:	Jan.9.2023
Testing Lab:	TIRT
Address:	/

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# History of the test report

Original Report Issue Date: 2023-01-9

• No additional attachment

#### • Additional attachments were issued following record

Attachment No.	Issue Date	Description



# 1. Certification

Product Name	Smart Phone
Product Model	V Max
Brand Name	DOOGEE
Power supply	Model: HJ-1203000-09 Input: 100-240V~50/60Hz, 0.8A Output: 5V=3A , 9V=3A, 12V=2.75A, 33.0W Max. PPS:5.0V-11.0V 3.0A 33.0W Max.
Applicant	Shenzhen DOOGEE Hengtong Technology CO.,LTD B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No.22, Longhua New District, Shenzhen, China
Manufacturer	Shenzhen DOOGEE Hengtong Technology CO.,LTD B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No.22, Longhua New District, Shenzhen, China

	Applicable standard
FCC 47 Part 15 Subpart B:2020	
ANSI C63.4:2014	

The above equipment has been tested by Beijing Tairuite Inspection&Testing Technology Service Co.,Ltd Shenzhen Branch. Laboratory The results of testing in this report apply only to the product system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.



# 2. Test Result Summary

### **2.1. Test Procedures According to The Technical Standard(s):**

Emission						
Standard Item Result Remarks Teste						
ECC 47 Part 15 Subpart R	Conducted (Main Port)	PASS	Class B	TIRT		
	Radiated	PASS	Class B	TIRT		

#### Note:

(1) "N/A" denotes test is not applicable in this test report.

(2) TIRT: Lab. Beijing Tairuite Inspection&Testing Technology Service Co.,Ltd Shenzhen Branch.

### 2.2. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement uncertainty levels of TIRT Lab				
Measurement Measurement Frequency U(dB)				
Radiated Emission	$30 MHz{\sim}1 GHz$	4.6		
Conduction Emissions	150kHz~30MHz	3.1		



# 2.3. Test Instruments List

Conducted emissions on AC mains						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F	00953	2022-11-24	2023-11-23	
Coaxial Switcher	SCHWARZBE CK	CX210	CX210	2022-11-24	2023-11-23	
V-LISN	SCHWARZBE CK	NSLK 8127	01073	2022-11-24	2023-11-23	
LISN	AFJ	LS16/110VAC	16010020076	2022-11-24	2023-11-23	
EMI Receiver	ROHDE&SCH WARZ	ESCI3	101422	2022-11-24	2023-11-23	

Radiated emissions (Below 1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2022-03-26	2023-03-25	
Preamplifier	SCHWARZBE CK	BBV9744	00246	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF1-SMASMA M-10m	21101566	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-10 m	21101570	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF1-SMASMA M-1m	21101568	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23	
RE Cable	REBES Talent	UF2-NMNM-2.5 m	21101573	2022-11-24	2023-11-23	
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/	
Horn Antenna	SCHWARZBE CK	BBHA9170	01157	2021-11-28	2023-11-27	
EMI TEST RECEIVER	ROHDE&SCH WARZ	ESCI7	101032	2022-11-24	2023-11-23	
SIGNAL	ROHDE&SCH	FSQ40	100010	2022-11-24	2023-11-23	



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ANALYZER	WARZ				
POSITIONAL	SVET		/	/	/
CONTROLLER	SKEI	PCI-OPIB	/	/	/
Broadband	SCHWARZBE	DDV0719D	00000	2022 02 26	2022 02 25
Preamplilifier	СК	DD V 9 / 16D	00008	2022-03-20	2025-05-25
Llom Antonno	SCHWARZBE		2507	2022 05 22	2024 05 21
Horn Antenna	CK	ВБПА9120D	2397	2022-03-22	2024-03-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL	SVET		/	/	1
CONTROLLER	SKEI	PCI-GPIB	/	/	/
Log periodic	SCHWARZBE		01229	2021 11 20	2022 11 27
antenna	СК	VULB 9108	01528	2021-11-28	2023-11-27



# 3. General Information

### 3.1. Basic Information of EUT

Product Name	Smart Phone
Product Model	V Max
Brand Name	DOOGEE
Power supply	Model: HJ-1203000-09 Input: 100-240V~50/60Hz, 0.8A Output: 5V=3A , 9V=3A, 12V=2.75A, 33.0W Max. PPS:5.0V-11.0V 3.0A 33.0W Max.
Applicant	Shenzhen DOOGEE Hengtong Technology CO.,LTD B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No.22, Longhua New District, Shenzhen, China
Manufacturer	Shenzhen DOOGEE Hengtong Technology CO.,LTD B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No.22, Longhua New District, Shenzhen, China

#### Note:

1. For more detailed features description, please refer to the manufacturer's or the User's manual of the EUT.

2. The EUT's highest operating frequency is >108MHz.



### **3.2. Description of Test Modes**

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively. The test data reflect the worst model.

Test Mode								
Final Test Mode Description								
1	Charging + Video play							
2	Charging + Video recording							
3	Date transmission							



## 3.3. Configure of system under test





## 3.4. Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test

configuration during the tests.

No.	Equipment	Model	Brand	FCC ID	Series No	
1	Mainframe	Vostro 5890	DELL	/	/	



# 4. Emission Test

### **4.1. Conduction Emission Test**

### 4.1.1.Limits

FREQUENCY (MHz)	Class /	A (dBuV)	Class B (dBuV)			
	Quasi-peak	Average	Quasi-peak	Average		
0.15 - 0.5	79	66	66 - 56	56 - 46		
0.50 - 5.0	73	60	56	46		
5.0 - 30.0	73	60	60	50		

#### Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 4.1.2.Test Procedures

- 1. Test limits and test methods reference FCC Part 15.107 Subpart B.
- 2. The EUT was placed 0.8 m from the horizontal ground plane and 0.4 m from the vertical groundplane with EUT being connected to the power mains through a line impedance stabilizationnetwork (AMN). All other support equipment powered from additional AMN. The AMN provide50 Ohm/ 50 uH of coupling impedance for the measuring instrument.
- 3. Interconnecting cables that hang closer than 0.4 m to the ground plane shall be folded back andforth in the center forming a bundle 0.3 m to 0.4 m long.
- 4. The frequency range from 150 kHz to 30 MHz was searched.
- 5. Actual test configuration, please refer to the related Item EUT Test Photos.
- 6. The thickness of the insulation shall not be more than 150 mm.



### 4.1.3.Test Set-up



For the actual test configuration, please refer to the related item – Photographs of the test configuration



### 4.1.4.Test Results

Product	Model:	V Max			RB	RBW			9 kHz					
Environr Conditio	nental ns	25° C	,49% F	RH	Те	Test Mode			Mode 1					
Tested b	у	Tang <sup>-</sup>	Гао		Те	st Res	sults		PASS					
Test Dat	e	2022-1	2-21											
Note:														
	Line													
80.														
70								++						
60								++	EN\$5032 CE-Class B_QP					
50									EN55032 CE-Class 8_AVe					
40	_													
30	L.	many	hulin			(M)	₩₩	17th	WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW					
10	- <b>*</b>	mnd	kh.r	huli	tuř.	unu	a na	iphowda	AVG					
-10	·							++						
-20	0.150	0	500		(MHz)		5.000		30.000					
	0.100	u.	566		(Mile)		5.000							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark					
1	0.1905	26.26	10.18	36.44	64.01	-27.57	QP	P						
2	0.1905	-0.93	10.18	9.25	56.00	-94.76	OP	P						
4	0.5233	-1.49	10.26	8.77	46.00	-37.23	AVG	P						
5	1.3020	22.25	10.27	32.52	56.00	-23.48	QP	Р						
6	1.3020	0.74	10.27	11.01	46.00	-34.99	AVG	Р						
7	1.7023	20.15	10.29	30.44	56.00	-25.56	QP	Ρ						
8	1.7023	1.86	10.29	12.15	46.00	-33.85	AVG	Ρ						
9 *	2.3054	22.46	10.28	32.74	56.00	-23.26	QP	P						
10	2.3054	1.10	10.28	11.38	46.00	-34.62	AVG	P						
11	12.1200	24.94	10.20	35.14	50.00	-24.86	AVG	P						
12	12.0010	1.00	10.10	11.00	50.00	-00.14	100	r I						

#### Note:

1、Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.

- 2、Measurement= Reading + Correct Factor.
- 3、Over = Result Limit



Report No.: FCC2022-06453E

Product	Model:	V Max	[		RB	RBW			9 kHz					
Environr Condition	nental ns	25° C	,49% F	КН	Te	Test Mode			Mode 1					
Tested b	у	Tang <sup>-</sup>	Тао		Те	st Res	ults		PASS					
Test Dat	е	2022-1	12-21											
Note:														
	Neutral													
80.	0 dBuV													
70								++						
60									EN55032 CE-Class B_QP					
50									EN55032 CE-Class 8_AVe					
40 30 20		hund	hwww	WM Ju	M	(rv	Ŵ	1º M	1 the market of the second					
0						an on the second	U.S. C.		AVG					
-10								╂						
-20	0.150	0.	500		(MHz)		5.000		30.000					
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark					
1	0.2310	22.92	10.20	33.12	62.41	-29.29	QP	P						
2	0.2310	-1.65	10.20	8.55	52.41	-43.86	AVG	P						
4	0.5010	-0.89	10.26	9.37	46.00	-36.63	AVG	P						
5	1.3020	17.27	10.25	27.52	56.00	-28.48	QP	Р						
6	1.3020	-1.11	10.25	9.14	46.00	-36.86	AVG	Ρ						
7	2.7014	16.17	10.27	26.44	56.00	-29.56	QP	P						
8	2.7014	-2.38	10.27	7.89	46.00	-38.11	AVG	P						
9	0.9180	-0.96	10.27	9.31	60.00	-40.69	AVG	P						
11	12,1290	-0.47	10.19	9.72	50.00	-40.28	AVG	P						
12	12.3180	22.57	10.17	32.74	60.00	-27.26	QP	P						

#### Note:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.

2. Measurement= Reading + Correct Factor.

3、Over = Result – Limit



## 4.2. Radiated Emission Test

### 4.2.1.Limit

#### FCC Part15B

	limits at 3m (dBµV/m)						
Frequency (MHZ)	QP Detector	PK Detector	AV Detector				
30 – 88	40.0						
88 – 216	43.5						
216 – 960	46.0						
960 – 1000	54.0						
Above 1000		74.0	54.0				

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705-108	1000.
108-500	2000.
500-1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Receiver Setup:

Frequency: (f)	Detector type	Measurement receiver bandwidth			
(MHz)	Detector type	RBW	VBW		
30 ≤ f ≤ 1 000	Quasi Peak	120 kHz	300 kHz		
f>1000	Peak	1 MHz	3 MHz		
f ≥1000	Average	1 MHz	3 MHz		



### 4.2.2.Test Procedures

Test limits and test methods reference FCC 47 CFR Part 15.109.

- Below 1GHz, the measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 m above the ground at a 3 m semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. Above 1GHz, the measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 m above the ground at a 3 m semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 3. The height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receiver peak detector mode.
- 5. Pre scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 6. For above 1GHz, If the emission level of the EUT In "Peak Detection" mode is 20 dB lower than the "Average" limit (means that the emission level in "Peak Detection" mode also complies with the limit in "Average Mode"), testing will be stopped and "Peak" values of the EUT will be reported, otherwise, the emissions of the EUT will be measured in "Average Mode" again and then reported.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz).
- 8. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.(above 1GHz).



### 4.2.3.Test Set-up







### 4.2.4.Test Results

#### **Below 1GHz**

Product M	lodel:	V Max		Lc	ocation		3m chamber		
Environme Conditions	ental s	22°C,45	% RH	Τe	est Mode		Mode 1		
Antenna F	Pole	Horizont	al	R	ЗW		120 kHz		
Tested by		Stone Ta	ang	Те	est Resul	ts	Pass		
Test Date		2023-01	-08						
Note:									
00.0	dB:0//m								
80.0	dbdy/m								
70 -								++	
60 -		+ + +						++	
50 -							EN15022 B		
							Maigin -6 dB		
40									
30			1 5 3						
20			AAA	4 5	6			a management	
10	1 march	march	MW	MAL	Multi	mar about mandar and	section.		
	14.40								
0									
-10									
30.0	000	60.00		(MHa	d	300.00		1000.000	
No. Fre	equency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	
1 7	8.1388	52.10	-27.89	24.21	40.00	-15.79	QP	Р	
2 9	1.4947	50.24	-27.82	22.42	40.00	-17.58	QP	Р	
3 * 10	05.6414	53.41	-27.67	25.74	40.00	-14.26	QP	P	
4 11	19.8555	43.24	-27.50	15.74	40.00	-24.26	QP	P	
5 15	50 2337	45.16	-27.21	17.95	40.00	-22.05		P	
20	10.2001	42.07	-20.04	10.23	47.00	-30.11	U.F	F	

- 1. Correct Factor = Antenna Factor + Cable Loss Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
   Measurement= Reading + Correct Factor.
   Over = Result - Limit



Produ	ct Model:	V Max			Lo	cation		3m cham	ber	
Enviro Condit	nmental tions	22°C,45	% R	Н	Те	est Mode		Mode 1		
ntenr	na Pole	Vertical			RE	3W		120 kHz		
estec	d by	Stone Ta	ang		Те	st Resul	ts	Pass		
est D	ate	2023-01-	-08							
lote:										
	80.0 dBuV/m 70 60 50							EN\$503 Margin -	2 <u>8_3n_QP</u> 6 d8	
	10 -10		m /		ann an the	Jun				
	-20 30.000	60.00			(MHz	)	300.00		1000.000	
No.	Frequency (MHz)	Reading (dBuV)	Fa (d	actor B/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	r P/F	
1	51.4806	47.26	-2	8.03	19.23	40.00	-20.77	QP	P	
2	72.5915	46.35	-2	7.91	18.44	40.00	-21.56	QP OP	P	
2	92.1300	54.42	-2	7.67	26.75	40.00	-13.25		P	
3 4 *	105.6414			7.04	18.45	40.00	-21.55	QP	 P	
3 4 * 5	105.6414 158.1123	45.66	-2	1.21	10.40	-	-	-		

- 1. Correct Factor = Antenna Factor + Cable Loss Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
- Measurement= Reading + Correct Factor.
  Over = Result Limit



#### Above 1GHz

Produc	ct Model:	V Max			Loca	ation	3m cł	3m chamber				
Enviroi Condit	nmental ions	22°C,45% RH			Test	t Mode	Mode	Mode 1				
Antenr	na Pole	Horizonta	al		RBV	V	1 MH	z				
rested	l by	Stone Ta	ng		Test	t Results	Pass					
est D	est Date 2022-12-18											
Note:												
	80.0 d8uV/m						FCC ABOVE_1	6_PEAK				
	70											
	50						FCC ABOVE_1	6_AVG				
	50 1 40 X	2			4		man	~~~~				
	30	man and the second	-	and a short for the second	and the second s							
	20											
	10											
	0											
	-10											
	-20 1000.000			(MHz	)			6000.000				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m	Margin ) (dB)	Detector	P/F				
1	1000.0000	45.51	-3.37	42.14	74.00	-31.86	peak	Р				
2	1469.950	70.35	-32.04	38.31	74.00	-35.69	peak	P				
3	1872.203	67.14	-31.71	35.43	74.00	-38.57	peak	P				
4	2595.434	69.92	-30.84	39.08	74.00	-34.92	peak					
6 *	5819.996	77.76	-30.01	43.32	74.00	-23.26	peak	P				
5 6 *	3581.325 5819.996	73.33 77.76	-30.01 -27.02	43.32	74.00	-30.68 -23.26	peak peak	P P				

- Correct Factor = Antenna Factor + Cable Loss Amplifier Gain, the value was added to Original Receiver Reading by the software automatically. Measurement= Reading + Correct Factor. 1.
- 2.
- Over = Result Limit 3.



	V Max			Loca	Location		3m chamber	
Invironmental Conditions	22°C,45% RH			Test	Test Mode		Mode 1	
Antenna Pole	itenna Pole Vertical			RBV	RBW		1 MHz	
ested by Stone Tang				Test	Test Results		Pass	
est Date 2022-12-18						<b>I</b>		
Note:								
80.0 dBuV/m								
70						FCC ABOVE_10	I_PEAK	
03								
						FCC ABOVE_10	i_AVG	
50					4		<u>~~</u>	
40 1	Mus Marian	hut 1	2 martine		man	www		
30	and a contraction of the second	entransistingin berneler						
20								
20								
10								
0								
-10								
-20								
			(MHz	)			6000.000	
1000.000								
No. Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	
No.      Frequency (MHz)        1      1134.847	(dBuV)	Factor (dB/m) -30.13	Level (dBuV/m) 39.21	Limit (dBuV/m) 74.00	Margin (dB) -34.79	Detector peak	P/F P	
No.      Frequency (MHz)        1      1134.847        2      2140.330	Reading (dBuV) 69.34 69.34	Factor (dB/m) -30.13 -31.40	Level (dBuV/m) 39.21 37.94	Limit (dBuV/m) 74.00 74.00	Margin (dB) -34.79 -36.06	Detector peak peak	P/F P P	
No.      Frequency (MHz)        1      1134.847        2      2140.330        3      2875.545	Reading (dBuV) 69.34 69.34 71.28	Factor (dB/m) -30.13 -31.40 -30.18	Level (dBuV/m) 39.21 37.94 41.10	Limit (dBuV/m) 74.00 74.00 74.00	Margin (dB) -34.79 -36.06 -32.90	Detector peak peak peak	P/F P P	
No.      Frequency (MHz)        1      1134.847        2      2140.330        3      2875.545        4      3601.918        5      4898.516	Reading (dBuV) 69.34 69.34 71.28 72.04 76.37	Factor (dB/m) -30.13 -31.40 -30.18 -30.03 -28.78	Level (dBuV/m) 39.21 37.94 41.10 42.01 47.59	Limit (dBuV/m) 74.00 74.00 74.00 74.00 74.00	Margin (dB) -34.79 -36.06 -32.90 -31.99 -26.41	Detector peak peak peak peak	P/F P P P P	

- 1. Correct Factor = Antenna Factor + Cable Loss Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.Measurement= Reading + Correct Factor.
- 3. Over = Result Limit



# 5. Appendix-A Test Photographs



Above 1G RE





CE





# 6. Appendix-B Photographs of EUT





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# STATEMENT

- 1. It is invalid if the report has no Inspection Seal.
- 2. It is invalid that the copy one is not sealed again.
- 3. It is invalid if the report has no signature or seal of tester, auditor, or approver.
- 4. It is invalid if the report is altered.
- 5. Objections to this report should be submitted to the inspection organization in 15 days of receipting the report. It is not accepted if overdue.
- 6. The test report is valid for above tested sample only.
- 7. Partial replica is prohibited without permission.
- 8.  $\Rightarrow$  is indicated that the item is without the scope of CNAS,CMA,CAL

Accredited Testing.

9. Forge, tamper the report, the organization will be liable for any legal liability incurred here from.

Address: 101, 3 # Factory Building, Gongjin Electronics, Shatin Community, Kengzi Street, Pingshan District, Shenzhen City,Guangdong province China

Tel: 0755-27087573

Fax: 0755-27087573

ZipCode:518118

E-mail: liuhaitao@tirt.com.cn

Web Sites: http://www.tirt.com.cn

#### (END OF REPORT)